

**In the Claims:**

1-25. (cancelled)

26-27. (withdrawn)

28. (new) A probe-comb apparatus comprising:

a two-metal probe-needle having a first tip-end and a second end;

a film segment having a second surface and a first surface to which the probe-needle is attached and wherein the tip-end extends beyond an edge of the film.

29. (new) The apparatus in claim 28 wherein said tip-end comprises a noble metal.

30. (new) The apparatus in claim 29 wherein said noble metal is selected from the group consisting of palladium, rhodium, and gold.

31. (new) The apparatus in claim 29 wherein said tip-end comprises a metal and a noble metal deposited thereon.

32. (new) The apparatus in claim 28 wherein said tip-end is between 0.00075 and 0.0015 inches thick.

33. (new) The apparatus in claim 28 wherein said tip-end is at least 0.05 inches long.

34. (new) The apparatus in claim 28 wherein the tip-end is between 0.00075 and 0.002 inches wide.

35. (new) The apparatus in claim 28 wherein a second probe-needle is attached on the film segment.

36. (new) The apparatus in claim 28 wherein said film is a thermally stable, dielectric, polymeric material.

37. (new) The apparatus in claim 28 wherein said film is between 0.001 and 0.003 inches thick.

38. (new) The apparatus in claim 28 wherein said film comprises polyimide.

39. (new) The apparatus in claim 28 wherein said probe-needle is formed to optimize its electrical impedance.

40. (new) The apparatus in claim 28 further including a ground plane patterned on the second surface of said film.

41. (new) The apparatus in claim 28 wherein the probe-needle is patterned with the aid of a computer and is formed by a laser.
42. (new) The apparatus in claim 28 wherein the probe-needle is at least partially formed by laser ablation.

43. (new) A probe card apparatus comprising:
- a support block having a curved surface, a bottom surface, an outer perimeter, and an opening in the center;
- a two-metal probe-needle;
- a film segment to which the probe-needle is attached and wherein a tip-end of the needle extends beyond an edge of the film.
44. (new) The apparatus in claim 43 wherein said tip-end of the needle extends beyond the bottom surface of the central opening in the support block.
45. (new) The apparatus in claim 43 wherein said support block comprises a dielectric material having a coefficient of thermal expansion between 2 and 8 PPM.
46. (new) The apparatus in claim 43 wherein said support block comprises a ceramic material.
47. (new) The apparatus in claim 43 wherein said support block comprises a composite polymer.
48. (new) The apparatus in claim 43 wherein said the outer perimeter of said support block conforms to an opening in a probe card.

49. (new) A probe card apparatus comprising:

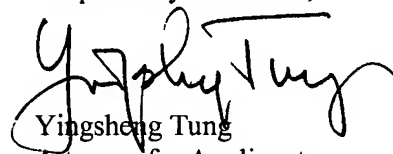
a support block having a curved surface, a bottom surface, an outer perimeter, and an opening in the center;

a two-metal probe-needle;

a film segment to which the probe-needle is attached and wherein a tip-end of the needle extends beyond an edge of the film; and

a probe card having an opening fitted to said support block perimeter and a conductive trace adapted to contact said probe-needle.

Respectfully submitted,



Yingsheng Tung  
Attorney for Applicants  
Reg. No. 52,305

Texas Instruments Incorporated  
P. O. Box 655474 MS 3999  
Dallas, TX 75265  
(972)917-5355